## IN THE CLAIMS:

Claim 1 has been amended as follows:

- 1. (Currently Amended) A valve assembly comprising:
- a valve body having a valve opening therein;
- [[a]] an electromagnetic force generator comprising a solenoid coil

  having a coil axis, said solenoid coil being energizable to

  generate [[a]] an electromagnetic force;
- a shaft in operable connection with said <u>electromagnetic</u> force generator <u>and disposed for reciprocal movement in a direction</u>

  <u>parallel to said coil axis in response to said electromagnetic</u>

  <u>force to regulate</u> so as to be movable relative to said valve opening dependent on said <u>electromagnetic</u> force to regulate a degree of opening of said valve opening; and
- a bearing assembly guiding said shaft in said movement relative to said valve opening, said bearing assembly comprising a magnet arrangement disposed to magnetically suspend said shaft.
- 2. (Original) A valve assembly as claimed in claim 1 wherein said magnet arrangement additionally magnetically biases said shaft in a direction to regulate said degree of opening of said valve opening.
- 3. (Original) A valve assembly as claimed in claim 2 wherein said magnet arrangement magnetically biases said shaft to decrease said degree of opening of said valve opening.
- 4. (Original) A valve assembly as claimed in claim 2 wherein said magnet arrangement magnetically biases said shaft to increase said degree of opening of said valve opening.

Claim 5 has been amended as follows:

- 5. (Currently Amended) A valve assembly as claimed in claim [[1]] 6 wherein said force generator is an electromagnetic force generator comprising a solenoid coil having a coil axis, said solenoid coil being energizable to generate an electromagnetic force, and wherein said shaft is disposed for reciprocal movement in a direction parallel to said coil axis in response to said electromagnetic force to regulate said degree of opening of said valve opening.
  - 6. (New) A valve assembly comprising:
  - a valve body having a valve opening therein;
  - a force generator energizable to generate a force;
  - a shaft in operable connection with said force generator so as to be movable relative to said valve opening dependent on said force to regulate a degree of opening of said valve opening; and
  - a bearing assembly guiding said shaft in said movement relative to said valve opening, said bearing assembly comprising a magnet arrangement disposed to magnetically suspend said shaft and to additionally magnetically bias said shaft, separately from said electromagnetic force, in a direction to regulate said degree of opening of said valve opening.
- 7. A valve assembly as claimed in claim 6 wherein said magnet arrangement magnetically biases said shaft to decrease said degree of opening of said valve opening.

8. A valve assembly as claimed in claim 6 wherein said magnet arrangement magnetically biases said shaft to increase said degree of opening of said valve opening.